

## **ABSTRACT**

A quick-release multiple locking position bicycle axle fastener that allows the user to open the cam lever far enough to remove the wheel without having to change the setting on the adjusting nut. The fastener includes a lever operated long travel cam rotating around a cam axle having multiple locking cavities therein for selectively receiving a ball bearing in response to manual movement of a locking and release pin. Depression of the pin releases the lever to rotate about the axle and move the ball bearing from one cavity to another. Positioning of the bearing in a cavity locks the lever in place, one cavity for the closed lever position and multiple cavities for increase opening of the skewer within the bicycle hub. The multiple locking features provide that the wheel stays in a locked position on the fork even if the cam lever is not completely closed. The user must depress the locking and release pin while opening the cam lever making it impossible for the lever to open by mistake or from outside influence.